

Notice of Allowability	Application No.	Applicant(s)
	09/767,191	CHIU ET AL.
	Examiner	Art Unit
	Andrew W. Wahba	2661
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ag or other appropriate communicatio GHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>11/16/2004</u> .	•	·
2. The allowed claim(s) is/are 1-6 and 8 (renumbered 1-7).		
3. \boxtimes The drawings filed on $\underline{11/16/2004}$ are accepted by the Exa	miner.	
 4. Acknowledgment is made of a claim for foreign priority uner a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	been received.	·
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the state of the property of the state of the st	con's Patent Drawing Review (PTC). s Amendment / Comment or in the	Office action of ings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT		
Attachment(s)		•
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summar Paper No./Mail Da	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		
4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9. 🗌 Other	have T. Nfreser
		CHAU NGUYEN RVISORY PATENT EXAMINER CHNOLOGY CENTER 2600

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DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Carl Thomsen on 04/18/2005.

- Claim 7 has been canceled.
- Claim 9 has been canceled.

Allowable Subject Matter

2. Claims 1-6 and 8, *(renumbered 1-7)* allowed. The following is an examiner's statement of reasons for allowance:

With regard to claim 1, the prior art does not teach or fairly suggest whereupon the encoding structure values $A_i^{''}$ will have k_i bits varied and thus the summation of the k_i bits associated with the encoding structure values is equal to n, $(\sum k_i = n)$, wherein n stands for an index bit width of the multi-sectional encoding indexing method; and determining whether or not the encoding structure values $A_i^{''}$ are transferred into A_0 XOR A_1 XOR ... XOR A_{m-1} and if the encoding structure values A_i are transferred into the A_0 XOR A_1 XOR ... XOR A_{m-1} , then the bits of A_i , from $n - (\sum k_j + 1)$ to $n - \sum k_j$ will become variable ones.

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With regard to claim 5, the prior art does not teach or fairly suggest adding or subtracting a certain value from the encoding structure values $A_i^{""}$ and after adding or subtracting a certain value to or from the encoding structure values $A_i^{""}$, k_0 bits of an encoding structure values $A_0^{"}$ and k_1 bits of the encoding structure values $A_1^{"}$ change, wherein $\sum k_i = n$, in which n is a width of index bits; and operating on A_0 with A_1 by an exclusive-OR thereby producing output values which are different if different values are inputted and have a collision free effect.

With regard to claim 8 (*renumbered claim 7*), the prior art does not teach or fairly suggest wherein a base pointer (BP) of an input unit 0 is BP₀, and input units of base pointers for other r-1 input ports is determined by the Table Bit Width (TBW) and Base Pointer (PB) of the pervious unit, using a formula BP_i = BP_{i-1} + W * 2^{TBW} wherein the base pointer is calculated in order to compatibly allocate every section of the indexing table memory used by different input ports.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew W. Wahba whose telephone number is (571) 272-3081. The examiner can normally be reached on M-F 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau T. Nguyen can be reached on (571) 272-3126. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully Submitted,

Andrew Wahba

Patent Examiner April 29, 2005

> CHAU NGUYEN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600

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